PATENT

SODA-LIME-SILICA GLASS COMPOSITION, ESPECIALLY FOR PRODUCING SUBSTRATES.

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ABSTRACT

The present invention relates to a glass composition intended for the manufacture of thermally stable substrates or plates that comprises the constituents given below, in the following proportions by weight:

SiO ₂	67 - 75 %
Al_2O_3	0.5 - 1 %
ZrO_2	2 - 7 %
Na ₂ O	2 - 9 %
K ₂ O	4 - 11 %
MgO	0 - 5 %
CaO	5 - 10 %
SrO	5 - 12 %
BaO	0 - 3 %
B_2O_3	0 - 3 %
Li ₂ O	0 - 2 %

with the relationships:

$$Na_2O + K_2O > 10 \%$$

MgO + CaO + SrO + BaO > 12 %

and said composition having a thermal expansion coefficient between 80 and 90×10^{-7} /°C. It also relates to the use of these glass compositions for the production of substrates, especially for emissive displays and for fire-resistant glazing.